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14 APR 1965

MEMORANDUM FOR: Director, National Photographic Interpretation Center

SUBJECT : Research and Development Project Approval Request for Advanced Stereo-Rhomboid

REFERENCE : Chief, Administrative Staff, O/DDI, Memorandum dated 4 February 1964: Approval of Research and Development Activities

In accordance with the authority delegated in paragraph 3. of the reference, approval is requested to obligate funds in the amount of

5X1 [] for an Advanced Stereo-Rhomboid as outlined in attachment "A".

25X

APPROVED:

ARTHUR C. LUNDAHL
Director, NPIC

19 APR 1965

Date

Attachment: "A"

Distribution

Orig & 2 - LB/SS
1 - O/Dir
1 - P&DS

5X1 LB/SS/NPIC/[] (25 Mar 1965)

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New

LA

25X1
25X1

25X1

25X1

25X1

R & D CATALOG FORM		DATE
1. PROJECT TITLE/CODE NAME Advanced Stereo-Rhomboid Prototype		19 March 1965
2. SHORT PROJECT DESCRIPTION This project covers the design and fabrication of a prototype Advanced Stereo-Rhomboid package for the Zoom 70.		
3. CONTRACTOR NAME		
4. CLASS OF CONTRACTOR Manufacturer		
6. TYPE OF CONTRACT Fixed Price		
7. FUNDS FY 19 \$ FY 1965 \$ FY 19 \$		8. REQUISITION NO. NA
		9. BUDGET PROJECT NO. NP-V-27
10. EFFECTIVE CONTRACT DATE (Begin - end) June 1965 - September 1965		11. SECURITY CLASS. A.A. - Confidential T. - Unclassified W. - Unclassified
12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION DDI/NPIC/P&DS/		
13. REQUIREMENT/AUTHORITY This device will be used by photointerpreters to stereoscopically view small-scale high-resolution conjugate images during photo interpretation and detailed analysis. This development is in response to requirements of NPIC/PID and NPIC/PAG.		
14. TYPE OF WORK TO BE DONE Engineering Development		
15. CATEGORIES OF EFFORT		
MAJOR CATEGORY	SUB-CATEGORIES	
Viewers and Other Interpretation Equipment	Interpretation and Analysis	
	Visual	
	Optical Systems	
16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC. This project will result in one prototype advanced Stereo-Rhomboid unit, monthly progress reports and an instruction manual.		
17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION This project has been coordinated with CIA/PID and NPIC/PAG personnel. By virtue of contacts throughout industry and the Intelligence Community it is concluded that no such instrument exists or is currently under development. In addition other agencies, NRTSC, and DIA are interested in this development.		
18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) The Zoom 70, in its present configuration, is fast becoming obsolete due to recent advances in cameras and films. Viewing high resolution film requires the use of superior optics capable of greater resolving power and higher magnification.		
19. APPROVED BY AND DATE		
OFFICE	DEPUTY DIRECTOR	DDCI

FORM 2338
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GROUP 1
Excluded from automatic
downgrading and
declassification

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R&D CATALOG FORM

18.

This project is directed toward the development of a detachable rhomboid unit which will feature the following optical and mechanical advantages; it will provide:

1. Increased magnification of 14X - 120X instead of the current 7X - 60X --- this includes using both 10X and 20X eyepieces.
2. Increased resolution from a present maximum of 160 lines/mm at 60X to approximately 300 lines/mm at 120X.
3. Independent 360° optical image rotation in each optical channel.
4. Increased rhomboidal separation from 110 mm on the present unit to 160 mm.

This rhomboid unit is being developed to improve the optical characteristics of the Zoom 70 in an effort to extend the operational usefulness of the approximately 225 instruments currently in use at NPIC. It is conceivable that this modification could prolong the useful life of these instruments for as long as three years. At the same time this project will incorporate the additional, highly desirable features of optical image rotation and increased rhomboidal separation.

This development will be accomplished under a [] fixed price contract with the []

[] Delivery of the engineering prototype would be within 3.5 months after receipt of the contract. After development, production units of the prototype could be purchased for an estimated [] per unit in quantities of 100.

The proper security measures are not currently in effect at the contractor's plant but the necessary company officers have Agency Secret clearances, and plant security is being arranged as a result of two prior Agency contracts.

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